

Studies on the Browning of Tobacco Leaves.
Part III. Varietal Difference, by S. Matsuyama.
JAPANESE, per, Nippon Nogeikagaku Kaishi,
vol. 35, no. 6, 1961, pp. 493-501.
NTC 71-12838-02D

Separation and Characterization of Fatty Acids,
Parts I, II, by Y. Inoue, H. Yabawa. 24 pp.

JAPANESE, per, Nippon Kagaku Kaishi, Vol. XVI,
1940, pp 504-512.

AERDL, Ft Belvoir 6469
OTS 63-19395

Sci. - Chem
Jun 63

234,473

Yabuta, T. S., Sumiki, Y. and others.
THE EFFECTS OF GIBBERELLIN ON SPECIAL COM-
PONENTS AND SPECIAL TISSUES OF PLANTS.
[1962] 7p.

Order from K-H \$\$.75 K-H 3561-b

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1941,
v. 17, no. 12, p. 1001-1004.

DESCRIPTORS: *Plants, Tissues (Biology), *Growth
substances, Hormones.

(Biological Sciences--Botany, TT, v. 9, no. 1)

62-34422

- I. Yabuta, T. S.
- II. Sumiki, Y.
- III. K-H-3561-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

62-10025

Inoue, Yoshiyuki, Hamada, Katsu, and Yokota,
Shuko.

STUDIES ON THE PREPARATION OF ORGANIC
ACIDS. VIII. MANUFACTURE OF PHTHALIC
ANHYDRIDE BY THE GAS-PHASE OXIDATION OF
NAPHTHALENE. [1961] [22]p. (foreign text included)
7 refs.

Order from SLA \$2.60

62-10025

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1943,
v. 19, p. 809-815.

DESCRIPTORS: *Organic acids, Synthesis, *Phthalic
anhydride, *Naphthalenes, Gases, Oxidation, Phase
studies.

(Chemistry--Organic, TT, v. 7, no. 8)

I. Inoue, Y.
II. Hamada, K.
III. Yokota, S.
IV. Title: Manufacture...

Office of Technical Services

Senju, R.
HYDROXYETHYL CELLULOSE. I. DETERMINATION
OF ETHYLENE GLYCOL GROUP IN HYDROXYETHYL
CELLULOSE. II. REACTION OF ETHYLENE OXIDE
AND ALKALI CELLULOSE. III. ALLYL DERIVATIVES
OF HYDROXYETHYL CELLULOSE, by R. Senju and
Satoshi Okimasu. 8p
Order from SLA \$1.10

TT-64-16707

Trans. of [Nihon Kagaku-Kagakkai Shi] (Japan) 1948,
v. 22, p. 59-60.

(Materials--Plastic. TT, v. 12, no. 4)

TT-64-16707

I. Senju, R.
II. Okimasu, S.
III. Title: Determination ...
IV. Title: Reaction ...
V. Title: Allyl ...

TT-64-18863

Office of Technical Services

Studies on Acetone-Butanol Fermentation with
Sucrose as Starting Material. Part I, by
Y. Nakahama, Y. Harada.
JAPANESE, per, Nihon Nogei Kagakukai-shi,
Vol 23, 1949, pp 176-180.
NLI Ref: 5809.95 (T/6222)

Sci-B&M
Oct 69

395,215

63-22918

Senju, Ryoichi and Okimasu, Siroshi.
STUDIES ON CHITIN. PT. I. ON THE GLYCOLATION
OF CHITIN AND THE CHEMICAL STRUCTURE OF
GLYCOL CHITIN. PT. II. THE MOLECULAR FORMS
AND THE DEGREES OF POLYMERIZATION OF
GLYCOL CHITIN FROM THE POINT OF VIEW OF
THE VISCOSITY OF ITS AQUEOUS SOLUTION, tr.
by E. R. Hope. Sep 63, 12p 26refs DSIS T 70 J.
Order from NRCC NRCC C-4533

Trans. of [Nihon Nogei-Kagakukai Shi] (Japan) 1950,
v. 23, no. 10, p. 432-441.
Another trans. of p. 432-437 is available from NRCC
\$1.00 as NRCC C-3850, NRCC TT-986, 1961, 15p.

DESCRIPTORS: *Chitin, Glycols, Molecular structure,
Viscosity, Polymerization.

(Biological Sciences--Biochemistry, TT, v. 10, no. 12)

1. Title: Glycolation
- I. Senju, R.
- II. Okimasu, S.
- III. Title: On ...
- IV. Title: Molecular ...
- V. DSIS-T-70-J
- VI. NRCC C-4533
- VII. Directorate of Scientific
Information Services
(Canada)

Office of Technical Services

Principle of the Anti-Diabetic Action and the
Fungistatic Action, by Yamaseki Izue, Satomura
Yukio, Yamamoto Takehiko, 11 p.

JAPANESE, per, Nihon Nagai-Kakukai Shi, 1950,
Vol. XXIII, No 10, pp 468-472.

SLA 59-15799

Sci
Dec 59
Vol 2, No 6

104, 221

Antidiabetic Action of Sporobolomyces Red Yeast,
by Y. Satohara, 5 p.

JAPANESE, per, Nihon Kagaku-Kagaku Shi, 1950,
Vol. XXXI, pp 468-477, and 1951, Vol. XXXIV,
pp 399-402.

SLA 59-15738

Sci
Dec 59
Vol 2, No 6

104, 217

Principle of the Anti-Diabetic Action and
The Fungistatic Action (PT 2), by Yamaseki Izue,
Satomura Yukio, Yamamoto Takehiko, 8 p.

JAPANESE, per, Nihon Kagaku-Shi, 1950,
Vol. XXIII, No 10, pp 473-477.

SLA 59-15800

Sci
Dec 59
Vol 2, No 6

104,222

(pt 3)
Antidiabetic Action and Fungistatic Action, by
Yamashiki Isue, Satomura Yukio, Yamamoto Takahiko,
10 p.

JAPANESE, per, Nihon Gogei-Kagakkai Shi, 1951,
Vol XXIV, No 9, pp 399-402.

SLA 59-15798

Sci
Dec 59
Vol 2, No 6

104,220

Studies in the Physical Chemistry of Amino Acids
and Proteins. Part 3. The Free Energy of Hydration
of Glycine and its Crystal Energy, by K. Shimura,
11 pp.

JAPANESE, per, Nippon Kagaku Kaishi, Vol XXIV,
1951, pp 412-416.

9212436

AEC-Tr-5845

Sci - R Phys

341,440

Aug 63

Studies in the Chemical Constituents of the Tobacco Plant. I. Evidence that the Florescent Substance in the Tobacco Plant is "Scopoletin", by Yuichi Mizukami.

JAPANESE, per, Nihon Nogei Kagakkai Shi, 1952, Vol. 25, no. 10, pp. 531-533.
K-H-2743-d

Chem
Aug 66

30⁷
617

Misato, Tomomasa and Fukunaga, Kazuo.
DETERMINATION OF γ -BHC BY CHROMATOGRAPHY.
[1963] [8p] 7refs
Order from SLA \$1.10 TT-63-20434

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1952,
v. 26, p. 24-27. (Abstract Available)

DESCRIPTORS: *Insecticides, *Hexachlorocyclohexanes,
*Chromatographic analysis, Adsorption, Silicon com-
pounds, Dioxides, *Gels.

The chromatographic procedure proposed by Harris for
the determination of γ -BHC was modified to enable use
of a smaller partition column and less reagents without
sacrificing accuracy. Silica gels having an adsorption
capacity of less than 5% (moisture adsorbed by silica
gel placed over 30% aqueous H_2SO_4) were found to be
suitable for the chromatographic procedure. (Author)
(Chemistry--Analytical, TT, v. 11, no. 4)

TT-63-20434

I. Misato, T.
II. Fukunaga, K.

Office of Technical Services

Hanacka, A., Harada, T., and Takizawa, T.
OXIDATION OF PROPARGYL ALCOHOL BY
BACTERIA. [1962] 4p.
Order from ATS \$7.50

ATS-05P59]

Trans. of [Nihon Nogei-Kagaku Kai Shi] (Japan) 1952,
v. 26, no. 3, p. 151-154.

DESCRIPTORS: *Alcohols, Oxidation, *Bacteria.

62-12801

I. Hanacka, A.
II. Harada, T.
III. Takizawa, T.
IV. ATS-05P59]
V. Associated Technical
Services, Inc.,
East Orange, N. J.

(Biological Sciences--Microbiology, TT, v. 7, no. 11)

Office of Technical Services

Wada, Einosuke.
STUDY OF CHEMICAL CONSTITUENTS OF TOBACCO.
III. ISOLATION OF KAEMPFEROL-3-RHAMNOGLUCO-
SIDE FROM. [1962] 9p.
Order from K-H \$11.25

K-H 3263 b

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1952,
v. 26, p. 159-162.

DESCRIPTORS: *Tobacco, Chemical analysis,
*Glucosides.

(Chemistry--Analytical, TT, v. 9, no. 2)

62-22845

- I. Title: Kaempferol
- I. Wada, E.
- II. K-H-3263-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.
- IV. Title: Isolation...

Office of Technical Services

The Acidic Constituents of Porpoise, by
Yukihiko Nakamura, Isami Tsujino. 9 pp.
JAPANESE, per, Nihon Nogei Kagaku-kai-shi,
Vol 27, 1952, pp 642-645.

Dept of Interior
Bureau of Commercial Fisheries
Office of Foreign Fisheries
A-30-July 1969-Bo 135
On Loan

Sci-B&M
Nov 69

397,299

62-17564

Oshima, Y. and Nakabayashi, T.
CHEMICAL CHANGES OF POLYPHENOL COMPOUNDS
AND AMINO ACIDS IN THE PROCESS OF BLACK
TEA FERMENTATION. PT. I of Studies on the Black
Tea Tannin. [1962] 15p.
Order from K-H \$18.75

K-H 3580-a

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1954,
v. 28, p. 264-269.

DESCRIPTORS: *Tea, *Tannic acids, *Fermentation,
*Phenols, *Amino acids, Polymers.

- I. Oshima, T.
- II. Nakabayashi, T.
- III. K-H-3580-a
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.
- V. Title: Studies . . .

(Biological Sciences--Biochemistry, TT, v. 8, no. 8)

Office of Technical Services

62-17567

Oshima, Y., Nakabayashi, T., and Ishibashi, S.
THE FRACTIONATION OF BLACK TEA TANNIN.
Pt. 2 of Studies on Black Tea Tannin. [1962] 12p.
Order from K-H \$15.00 K-H-3580-b

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1954,
v. 28, p. 269-274.

DESCRIPTORS: *Tea, *Tannic acids, Fractionation.

- I. Oshima, Y.
- II. Nakabayashi, T.
- III. Ishibashi, S.
- IV. Title: Studies...
- V. K-H-3580-b
- VI. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Biological Sciences--Biochemistry, TT, v. 8, no. 8)

Office of Technical Services

Nakabayashi, Toshio and Hada, Norimasa.
ISOLATION OF TANNINS. Pt. 1 of Studies on Tannins
of *Spirogyra Arcta*. [1962] 14p.
Order from K-H \$17.50 K-H 3629-b

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1954,
v. 28, p. 387-391.

DESCRIPTORS: Separation, *Tannic acids, *Algae.

(Biological Sciences--Biochemistry, TT, v. 9, no. 2)

62-22599

- I. Nakabayashi, T.
- II. Hada, N.
- III. Title: Studies ...
- IV. K-H-3629-b
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Studies on Chitin. Report No 1. On the
Glycolation of Chitin and the Chemical
Structure of Glycol Chitin, by Ryoichi
Senju, Satoshi Okimasu, 7 pp, and 5 Atch.

JAPANESE, per, Nihon Nogeikagaku Kaishi (Journal
of the Agricultural Chemical Society of Japan),
Vol XXIII, No 10, 1954, pp 432-437.

NIH 11-9-61

179,317

Sci - Med

62-22610

Nio, Seigi and Sasaki, Toshiro.
INFLUENCE OF HIGH-FREQUENCY WAVES ON
CHEMICAL COMPONENTS IN TOBACCO. [1962]

11p. K-H 3280-a
Order from K-H \$13.75

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1952,
v. 26, p. 490-493.

DESCRIPTORS: *High frequency, *Tobacco, Plants.

(Agriculture--Plant Cultivation, TT, v. 8, no. 8)

- I. Nio, S.
- II. Sasaki, T.
- III. K-H-3280-a
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Asai, Toshinobu and Aida, Ko.
STUDIES ON THE OXIDATIVE BACTERIA. PT. 4. ON
THE PRODUCTION OF ALPHA-KETOGLUTARIC ACID
AND PYRUVIC ACIDS BY *PSEUDOMONAS* AND
SERRATIA. [1963] 14p. 22 refs.
Order from SLA \$1.60

63-14629

Trans. of [Nihon Nogei-Kagakkai Shi (Japan)] 1952, v. 26,
p. 528-533.

DESCRIPTORS: *Bacteria, Oxidation, *Metabolism,
*Pseudomonas, *Serratia, *Pyruvic acid, *Glutaric
acids, *Carbonyl radicals, Chemical reactions,
Culture media, Paper chromatography.

By shaking culture, a confirmation was made that
Pseudomonas 33F produced α -ketoglutaric acid and
that *Serratia marcescens* No. 18 also produced this
acid via 2-ketogluconic acid. From 7.64% glucose
solution containing 0.1% ammonium sulphate and
other mineral salts, *Pseudomonas* 33F and
(Biological Sciences--Biochemistry, TT, v. 10, no. 5)
(over)

63-14629

I. Asai, T.
II. Aida, K.
III. Title: Production . . .

Office of Technical Services

Oshima, Y. Nakabayashi, T., and Hada, N.
STUDIES OF SEVERAL FACTORS IN THE PAPER
CHROMATOGRAPHY OF TANNINS. Pt. 1 of Paper
Chromatograph of Tannins. [1962] 10p.
Order from K-H \$12.50 K-H 3580-c

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1954,
v. 28, p. 618-621.

DESCRIPTORS: *Tannic acids, *Paper chromatography

(Chemistry--Analytical, TT, v. 8, no. 8)

62-17565

- I. Oshima, Y.
- II. Nakabayashi, T.
- III. Hada, N.
- IV. Title: Paper ...
- V. K-H-3580-c
- VI. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Oshima, Y., Nakabayashi, T., and Hada, N.
A CLASSIFICATION OF TANNINS BY THE METHOD
OF PAPER CHROMATOGRAPHY [AND] TREHA-
LOSE AND YEAST. Pts. 2-3 of Paper Chromatograph
of Tannins. [1962] 19p.
Order from K-H \$23.75 K-H 3580-d

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1954,
v. 28, p. 621-629.

DESCRIPTORS: *Tannic acids, Classification,
Saccharides, *Yeasts, *Paper chromatography.

(Chemistry--Analytical, TT, v. 8, no. 8)

62-17566

- I. Oshima, Y.
- II. Nakabayashi, T.
- III. Hada, N.
- IV. Title: Trehalose ...
- V. Title: Paper ...
- VI. K-H-3580-d
- VII. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

The Production of Vitamin C by Fermentation.
Pt. 6, The Formation and Isolation of 2-Keto-
L-Gluconic Acid From Ca-L-Iodonate. Ca-D-Gluconate.
by Yamazaki, Masataka. 9 p.

JAPANESE, per, Nihon Kagaku Shishi, 1954,
Vol XXVII, No 304, pp 633-638.

SLA 59-15174

Sci
Vol 2 No 6
Dec 59

104,240

Bacteriological Studies of Acetone-butanol-
fermenting Bacteria (KN-18), by Y. Takeda,
T. Matsui.

JAPANESE, per, Nihon Kagaku Zasshi,
No 29, 1955, pp 78-82.

NIL Ref: 5809.95 (T/6221)

Sci-B&M
Oct 69

395,214

Kurasawa, H., Saito, S. and others.
AN ENZYME IN ASPERGILLUS ORYZAE WHICH
SYNTHESIZES A NONREDUCING OLIGOSACCHARIDE
FROM SUCROSE. PT. 4. RELATION BETWEEN THE
ENZYME SYNTHESIZING AN OLIGOSACCHARIDE
FROM SUCROSE AND SO-CALLED SACCHARASE,
I. [1963] 8p.

Order from ATS \$9.75

ATS-18Q67J

Trans. of Nihon Nogei Kagakai Shi (Japan) 1955,
v. 29, no. 3, p. 211-215.

DESCRIPTORS: *Enzymes, *Molds (Organisms),
Invertase, Sucrose, Saccharides.

(Biological Sciences--Biochemistry, TT, v. 10, no. 2)

63-17146

- I. Kurasawa, H.
- II. Saito, S.
- III. Title: Relation...
- IV. ATS-18Q67J
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS 77-4214

Office of Technical Services

TT- 62-28893

Murao, S.
ETUDE DE LA PÉNICILLIN-AMIDASE. II, CONDI-
TIONS DE PRODUCTION DE LA PÉNICILLIN-AMIDASE.
III. MÉCANISME DE LA RÉACTION DE LA PÉNICIL-
LIN-AMIDASE (Penicillin-Amidase. II. Productional
Conditions of Penicillin-Amidase. III. Mechanism of
Penicillin-Amidase Action on Sodium Pencilling). 13p.
20refs. CNRS-XXI 127.
Order from OTS, ETC or CNRS \$1.60 TT-62-28893

Trans. in French of Nihon Nogei-Kagakkai Shi (Japan)
1955, v. 29, no. 6, p. 410-414.

DESCRIPTORS: *Penicillins, Culture media, Sulfur
compounds, *Enzymes, Decomposition.

(Biological Sciences--Pharmacology, TT, v. 11, no. 9)

- I. Murao, S.
- II. CNRS-XXI 127
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

nn

Studies on Oxidative Metabolism of Glucose by
Acetobacter Melanogenum, Pt I. On the Formation of
2,5-Diketogluconic Acid, by Keiji Kondo, Minoru
Ameyama, Tadamasa Yamaguchi, 12 pp.

JAPANESE, per, Nihon Kagakugaku Kaishi, Vol XXI,
1956, pp 419-422.

SIA 59-15615

Sci
Dec 59
Vol 2, No 5

103,550

Studies on Oxidative Metabolism of Glucose by
Acetobacter Melanogenum. Pt II. The Presumption
of the Pathway of Glucose Degradation, by Keiji
Kondo, Minoru Ameyama, Tsutomu Yamaguchi, 10 pp.

JAPANESE, pub, Nihon Kagakukai Kaishi, Vol XXX,
1956, pp 423-426.

BIA 59-15616

Sci
Dec 59
Vol 2, No 5

103,552

On the Spectrophotometric Determination of
Tetracycline, by S. Inoue, T. Ito, H. Ogawa, 22 pp.

JAPANESE, per, Nihon Nogeikagaku Kaishi, Vol XXX,
No 10, Oct 1956, pp 591-596.

NIH 1-5

57,795

Sci - Chem

Jan 58

Shiga, Tatsuji and Shimo, Mitsuo.
STUDIES ON ENZYMATIC SYNTHESIS OF DEKTRAN.
PT. I. ON THE CONDITIONS OF DEKTRAN SUCRASE
PRODUCTION. [13]p. 12refs.
Order from S.L.A \$1.60

TT-64-16709

Trans. of Dokuritu Nippon-Kagaku Kai (Japan) 1957,
v. 31 [no. 4] p. 273-275.

TT-64-16709

- I. Shiga, T.
- II. Shimo, M.
- III. Title: On the ...

(Biological Sciences--Biochemistry, TT, v. 12, no. 4)

Office of Technical Services

TT-64-16725

Shiga, Tatsuji and Shimo, Mitsuo.
STUDIES ON THE ENZYMATIC SYNTHESIS OF DEX-
TRAN. PT. II. THE CONDITIONS OF ENZYMATIC
SYNTHESIS AND DEXTRANS SUCRASE PRODUCTION.
[19]p (foreign text included) 3refs.
Order from SLA \$1.60

TT-64-16725

Trans. of [Nihon Nogei-Kagaku Shu] (Japan) 1957,
v. 31 [no. 4] p. 276-279.

- I. Shiga, T.
- II. Shimo, M.
- III. Title: The conditions ...

(Biological Sciences--Biochemistry, TT, v. 12, no. 4)

Office of Technical Services

62-20219

Mizuno, Takashi and Kimpyo, Tadao.
FREE SUGARS AND THE CONSTRUCTIVE SUGARS
OF GLYCOSIDES IN GREEN LEAVES OF JAPANESE
BRIGHT YELLOW TOBACCO. Pt. 1 of [A Study of]
the Carbohydrates of Tobacco. [1962] 10p. 24 refs.
Order from SLA \$1.10 62-20219

Trans. of Nihon Nogai-Kagakukai Shi (Japan) 1957,
v. 31, no. 5, p. 297-299.

DESCRIPTORS: *Polysaccharides, Carbohydrates,
Synthesis, *Glycosides, *Tobacco, Chemical analysis.

Free sugars of green tobacco leaves (Bright Yellow
variety) were shown to be fructose (3.05%), glucose
(2.58%), sucrose (6.05%), maltose (0.47%), raffinose
(0.31%), stachyose (0.18%) and inositol (0.28%).
Mannose, glucose, galactose, rhamnose and smaller
quantities of xylose, fructose and desoxyribose were
(Chemistry--Analytical, TT, v. 9, no. 12) (over)

I. Mizuno, T.
II. Kimpyo, T.
III. Title: Study ...

Office of Technical Services

Lignin and Lignification 7&8 the Formation of Lignin
in the Young Plant, by H. Ishikawa.
JAPANESE, per, Nihon Nogeikagaku Kaishi, Vol 31, No 6,
1957, pp 375-383
NLL/8732 1965 (TT-1159

Sci -
Aug 67

339,705

Causes of Blackening of Canned Beef Cans,
by Y. Obata, et al.
JAPANESE, per, Nihon Nogeikagaku Kaishi,
Vol 31, No 8, 1957, pp 585-587.
NLL Ref: 9022.091B (2438)

Sci-BGM
Sept 76

309,572

63-17271

Matsui, Masanao.
REDUCTION WITH COMPLEX METAL HYDRIDES.
[1963] 25p.

Order from K-H \$25.00 (2.60) SLA 63-20608 K-H 8524

Trans. of [Nihon] Nogei-Kagaku Shi (Japan) 1957,
v. 31, no. 10, p. 107-118.

DESCRIPTORS: *Reduction (Chemistry), *Hydrides,
*Complex compounds, Metallic compounds.

- I. Matsui, M.
- II. K-H-8524
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Chemistry--Inorganic, TT, v. 10, no. 1)

Office of Technical Services

62-18832

Mizuno, Takashi and Kimpyo, Tadao.
POLYSACCHARIDES OF THE YELLOW-TOBACCO
LEAF. Pt. 2 of [A Study of] the Carbohydrates of To-
bacco. [1962] 9p. 9 refs.
Order from SLA \$1.10

62-18832

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1957, v. 31,
p. 830-832.

Another trans. is available from K-H \$11.25 as
K-H 12138 [1962] 9p.

DESCRIPTORS: *Polysaccharides, *Tobacco, *Plants,
Quantitative analysis, Chemical properties, Physical
properties.

The green leaves of the Yellow variety tobacco were ex-
tracted with hot 80% ethanol to eliminate soluble sugars,
pigments, etc. The material insoluble in the solvent
was partitioned into polysaccharide fractions soluble in
(Chemistry--Analytical, TT, v. 9, no. 7) (over)

I. Mizuno, T.
II. Kimpyo, T.
III. Title: Study ...

Office of Technical Services

Ueda, Kiyomoto.
CONTINUOUS FERMENTATION OF MOLASSES WITH
A COMBINED SYSTEM OF AGITATED VESSELS AND
FLOW PIPES. Pt. 7 of Studies in Continuous Fermenta-
tion. [1962] 9p. 4 refs.
Order from SLA \$1.10

62-16046

Trans. of [Nihon Nogei-Kagakkai Shi (Japan) 1958,
v. 32, p. 26-29].

DESCRIPTORS: Food, *Carbohydrates, Fermentation,
Yeasts, Alcohols, Containers, Pipes.

An improved set of equipment for the agitated-vessel
process was devised, to be used for continuous alcoholic
fermentation. This apparatus is a compromise between
the agitated-vessel and the pipe process. This im-
proved apparatus is 1.8 times more efficient than the
re-use and the two-vessel methods; this figure agrees
with the theoretical value. (Author)
(Food, TT, v. 9, no. 3)

62-16046

- I. Title: Molasses
- I. Ueda, K.
- II. Title: Studies...

Office of Technical Services

62-17529

Mizuno, T. S., Kainuma, S. and others.
THE CARBOHYDRATES OF THE STEM AND THE
ROOTS OF THE TOBACCO PLANT. Pt. 3 of A Study
of the Carbohydrates of Tobacco. Feb 61, 16p.
Order from K-H \$20.00 K-H-10521-b

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1958,
v. 32, no. 6, p. 467-470.

DESCRIPTORS: *Plants, *Tobacco, *Carbohydrates.

- I. Mizuno, T. S.
- II. Kainuma, S.
- III. Title: Study...
- IV. K-H-10521-b
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Biological Sciences--Biochemistry, TT, v. 8, no. 8)

Office of Technical Services

On the Denaturation of β -Lactoglobulin by the
Radiation of Ultraviolet Light: (Part I), by
S. Sakamura, Y. Obata, 9 pp.

JAPANESE, per, Nihon Nogei Kagaku-Kai Shi,
Vol XXXII, No 9, 1958, pp 667-670. 9080646

AERE, Harwell
HP-Tr-680

167,843

Sci
Sep 61

Nutritional Requirements of Hiochi Bacteria, by
G. Tamura, Y. Suzuki, 7 p.

JAPANESE, per, Nihon Gogei-Kagaku Shi, 1958,
Vol XXII, No 10, pp 778-783.

SLA 59-20296

Sci
Mar 60
Vol 2, No 11.

109,513

Studies on Flavonoid (Part I) on the aluminum
Salts of Flavonols, by Keizo Hiyashiya.
JAPANESE, per, Nippon Nogei Kagaku Kaishi,
Vol XXXIII, 1959, pp 174-176. 9231912
AEC-ORNL-Tr-902

Sci - Chem
Feb 66

295,478

Kuzuhara, Hiroyoshi and Matsui, Masanao.
SYNTHESIS OF L-SERINE. Part I of Studies on the
Utilization of D-glucosamine. [1961] 6p. 4 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10618

Trans. of Nihon Kagaku Kagakai Shi (Japan) 1960,
v. 34, p. 404-405.

L-Serine hydrochloride was prepared from D-glucos-
amine hydrochloride by making use of the special
arrangement of the amino group in the latter. (Author)

(Chemistry--Organic, TT, v. 5, no. 12)

61-10618

- I. Serine--Synthesis
- I. Kuzuhara, H.
- II. Matsui, M.
- III. Title: Studies ...

148591

Office of Technical Services

61-20729

Takahashi, Machida, and Yamada.
EFFECTS OF SOME PHYSICAL FACTORS ON
SUBMERGED MOLD CULTURES. PTS. 4-5
(SUMMARIES). [1961] 2p.
Order from SLA \$1. 10

61-20729

Partial trans. of [Nihon Nogei-kagakkai Shi] (Japan)
1960, v. 34, p. 440-[447].

DESCRIPTORS: *Molds, *Culture media, Viscosity,
Growth, Sucrose, Serum amylase.

Contents:

Effects of culture fluid viscosity on mycolial forms
of molds
Effects of culture fluid viscosity on the growth and
amylase production of Asp. Niger.

(Biological Sciences--Botany, TT, v. 8, no. 3)

I. Takahashi
II. Machida
III. Yamada

Office of Technical Services

132786314
AEC-UCRL-Tr-10860(L)

Sci-Biol & Med
Nov 64

268,558

Studies on the Photodecomposition of Amino Acids, by
H. Hara.
JAPANESE, per, Nihon Nogei Kagakukai-shi, vol. 34,
1960, pp. 493-498.
NTC 71-10956-07E

August 71

Kuminaka, Akira.
STUDIES ON THE TASTE OF RIBONUCLEIC ACID
DERIVATIVES. [1963] 15p. 23 refs.
Order from SLA \$1.60 63-10862

Trans. of Nihon Kagaku Kaishi (Japan) 1960,
v. 34, p. 489-492].

DESCRIPTORS: *Taste, *Ribonucleic acids, Purines,
Pyrimidines, Nucleosides, Nucleotides, Amino acids.

Among the compounds related to the nucleic acids,
purine pyrimidine bases, nucleosides, 2'- and 3'-
mononucleotides and polynucleotide do not have a
taste practically, if they are alone, whereas 5'-mono-
nucleotides of 6-hydroxypurine derivatives exhibit a
specific taste. The specific and remarkable syner-
gism of taste was observed between these nucleotides
and monosodium L-glutamate. (Author)
(Biological Sciences--Biochemistry, TT, v. 10, no. 4)

63-10862

I. Kuminaka, A.

Office of Technical Services

62-17515

Matsuyama, A. and Ishitoya, Kenzo.
STUDIES ON THE CHEMICAL CONSTITUENTS OF
THE "CHERRY RED" TOBACCO PLANT. [1962] 12p.
Order from K-H \$15.00 K-H-11092-b

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1960,
v. 34, no. 8, p. 662-665.

DESCRIPTORS: *Plants, *Tobacco, Chemical
properties.

- I. Matsuyama, A.
- II. Ishitoya, K.
- III. K-H-11092-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Agriculture--Plant Cultivation, TT, v. 8, no. 8)

Office of Technical Services

Studies on Synthesis of L-aminonacids. II., by
M. Tanaka.
JAPANESE, par, Nihon Kagaku Kaishi,
Vol 34, 1960, pp 972-975.
NLI Ref: 5828.4F (M 13224)

Sci-Chem
Oct 69

395,182

Studies on Polyphenols of Rice Plant. Part I.
Separation and Identification of Phenolcarboxylic
Acids, by S. Kuwatsuka.
JAPANESE, per, Nippon Nogeikagaku Kaishi, Vol 35, No 1,
1961, pp 67-71.
NTC-71-10471-07C

Nov 71

Studies on Polyphenols of Rice Plant. Part II.
Separation and Identification of Tricin, by
S. Kuwatsuka.
JAPANESE, per, Nippon Nogeikagaku Kaishi, Vol 35,
No 1, 1961, pp 71-75.
NTC-71-10470-07C

Nov 71

TT-64-10527

I. Iwata, Y.

Iwata, Y.
LATEST DEVELOPMENT OF WOOD CHEMICAL
INDUSTRY. [1963] [26p] (foreign text included) 23 refs
Order from SLA \$2.60 TT-64-10527

Trans. of Nihon Nogei-Kagakkai Shi (Japan) 1961,
v. 35, no. 2, p. A19-A25. (Abstract available)

DESCRIPTORS: *Chemical industry, *Wood,
Hydrolysis, Industrial research, Economics,
*Glucose, *Xylose, Production.

Methods reported at the 2nd FAO Symposium on the
Hydrolysis of Wood are summarized and details on
construction costs and balance sheets of the plants are
given. The methods include: the gypsum method; the
acid dialysis method; the hydrochloric acid gas process;
and the undiluted hydrochloric acid (new Udic-
Rheinau) process.
(Materials--Wood, TT, v. 11, no. 10)

Office of Technical Services

Mishina, A.
GAMMA RADIATION-INDUCED GRAFT POLY-
MERIZATION OF ACRYLAMIDE ONTO AMYLOSE
IN AN AQUEOUS SOLUTION. [1961] 8p.
Order from ATS \$16.00

ATS-58N55J

Trans. of Nihon Nogei-Kagaku Shi (Japan) 1961, v. 35,
no. 1, p. 40-45.

DESCRIPTORS: *Acrylamides, Gamma rays, Radi-
ation effects, Polymer solutions, Polymerization.

(Chemistry--Organic, TT, v. 7, no. 2)

61-25714

1. Title: Graft polymers.
2. Title: Amylose
- I. Mishina, A.
- II. ATS-58N55J
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-12882

Hayaishi, Akira.
ON THE ACTION OF BONDED SUBSTANCE ON
CHROMATOGRAMS. Rept. 9 of Study on the Chemical
Combination Between Lignin and Carbohydrate. May 62,
8p. FPRB Trans. no. 153.
Order from NRCC

NRCC C-4294

Trans. of [Nihon Nogei-Kagaku Shii] (Japan)
1961, v. 35, p. 80-83.

DESCRIPTORS: *Lignin, *Carbohydrates, Separation,
Chemical bonds, *Paper chromatography. .

(Chemistry--Analytical, TT, v. 9, no. 9)

I. Hayaishi, A.
II. Title: Study...
III. FPRB Trans-153
IV. NRCC C-4294
V. Forest Products
Research Branch
(Canada)

Office of Technical Services

Studies on Taste of Ribonucleic Acid Derivatives,
by A. Kuninaka
JAPANESE, per, Nippon Nogei Kagaku Kaishi, Vol 34,
1960, pp 489-492
NTC 71-16855-06H

Feb 72

63-17540

Hayashi, Akira.
ON THE EXISTENCE OF PHENOL- β -GLYCOSIDE
BOND. Rept. 10 of Studies on the Chemical Combination
between Lignin and Carbohydrate. May 62, 8p. 16 refs.
FPRB Trans. no. 154
Order from NRCC

NRCC C-4388

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1961,
v. 35, p. 83-86.

DESCRIPTORS: *Lignin, *Carbohydrates, Chemical
bonds, *Phenols, *Glucosides, *Xylose, Chromato-
graphic analysis, Hydrolysis, Hydroxides, Glycoside
hydrolases.

(See also NRCC C-4294)

(Biological Sciences--Biochemistry, TT, v. 10, no. 3)

- I. Hayashi, A.
- II. Title: Studies ...
- III. FPRB Trans-154
- IV. NRCC C-4388
- V. Forest Products Research
Branch (Canada)
- VI. Bureau of Translations
(Canada)

Office of Technical Services

Nutritional Studies on Fluorine - Report No. 3.
The Relation Between the Mandible's and Incisor's
Strength or Hardness and Their Fluorine Content,
by Susumu Fuzie, 7 pp, and 3 Atch.

JAPANESE, per, Nippon Nogeikagaku Kaishi (Journal
Of the Agricultural Chemical Society of Japan),
Vol XXXV, No 2, 1961, pp 155-159.

NIH 11-20-61

Sci - Med

179,328

Studies on Lysine Fermentation. Report No. 2.
ε α, ε-Diaminopimelic Acid and Its Decarboxylase
in Lysine-Producing Strains and Parent Strain,
by K. Nakayama, S. Kinoshita, 7 pp.

JAPANESE, per, Nihon Nogakagaku Kaishi, Vol. XXXV,
No 2, 1961, pp 110-113.

NR 1-8-62

Sci - Med

186,375

Feb 62

Studies on Lysine Fermentation. Report No. 3.
Q, ε-Diaminopimelic Acid Accumulation and
Diaminopimelic Acid Decarboxylase, by
K. Nakayama, S. Kinoshita, 13 pp.

JAPANESE, per, Nihon Kagakugaku Kaishi, Vol XXXV,
No 2, 1961, pp 113-118.

NIH 1-9-62

186,376

Sci - Med

Feb 62

Studies on Lysine Fermentation. Report No 4.
Culture Condition for Lysine Accumulation by a
Homoserine-Less Mutant of Bacillus Subtilis,
by K. Nakayama, S. Kinoshita, 6 pp.

JAPANESE, per, Nihon Kagaku Kaishi,
Vol XXXV, No 2, 1961, pp 119-121.

NIH 2-7-62

Sci - Med

191, 445

Apr 62

CHEMICAL REACTIONS OF AMINO ACIDS WITH ALDEHYDES.
PART III. CONDENSATION PRODUCTS OF B-HYDROXY- α -AMINO
ACIDS WITH FORMALDEHYDE, BY S. EMOTO, M. ANDO, 7 PP.

JAPANESE, PER, NIPPON NOGEIKOGAKO KAISHI, VOL XXXV,
NO 7, 1961, PP 882-887.

NIH % K 6-35-62

SCI - CHEM

208,773

AUG 62

Noguchi, Masao, Kokago, Takako, and Tamaki,
Einosuke.
ISOLATION OF SHIKIMIC AND QUINIC ACIDS FROM
THE TOBACCO LEAF. [1962] 7p (refs omitted) 11 refs
Order from SLA \$1.10 TT-64-14612

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1961,
v. 35, no. 9, p. 868-870.
Another trans. is available from K-H \$8.75 as
K-H-11560-b [1962] 7p.

TT-64-14612

I. Noguchi, M.
II. Kokago, T.
III. Tamaki, E.

(Biological Sciences--Biochemistry, TT, v. 11, no. 11)

Office of Technical Services

Ueda, Shizuo, Watanabe, Akira, and Tsuji, Fuku'u.
CONDUCTANCE OF LIGNIN SULFONATES IN
MIXED SOLVENTS. Pt. 1 of Physico-Chemical
Studies on Lignin. [1962] 21p. 16 refs.
Order from SLA \$2.60 62-18726

Trans. of Nihon Kagaku Kagakkaishi (Japan) 1961,
v. 35 [no. 10] p. 908-915.

DESCRIPTORS: *Electrical conductance, *Lignin,
*Sulfonates, Sodium compounds, Solvents, Solutions,
Ethanol, Physical chemistry.

Conductivity of sodium lignin sulfonate (NaLS) was
measured using ethanol-water mixed solvent as a
medium. When the concentration of NaLS is a low,
Kohlrausch's law can be applied; and the ultimate
value, Λ° , at zero concentration can be obtained by
extrapolating the curve correlating the equivalent con-
(Chemistry--Physical, TT, v. 9, no. 12) (over)

62-18726

- I. Ueda, S.
- II. Watanabe, A.
- III. Tsuji, F.
- IV. Title: Physico-Chemical..

Office of Technical Services

Studies of the Properties of Hydrocyanic Acid.
Report 1: Polarographic Analysis of the Hydro-
Cyanic Acid Polymer. Report 2: Polarographic
and Ultraviolet Spectroscopic Consideration of
the Hydrocyanic Acid Tetramer, by Kiyoshi Onoda.

22 pp.

JAPANESE, per, Nippon Nogei Kagaku Kaishi, Vol 35
1961, pp 1323-1331.

NASA TT F 12,821

sci/chem may 70

63-16248

Tanaka, Masao; Kato, Yo, and Kinoshita, Shukuo.
ENZYMATIC STUDIES ON THE OPTICAL ACTIVITY
OF AMINO ACIDS. PT. VII. PURIFICATION AND
SOME PROPERTIES OF GLUTAMIC ACID RACE-
MASE. [1963] [22]p. (foreign text included) 32 refs.
Order from SLA \$2.60 63-16248

Trans. of [Nihon Nogei-Kagakkai Shi] (Japan) 1961,
v. 35, no. 14, p. 1378-1381.

DESCRIPTORS: *Amino acids, *Glutamic acid,
*Enzymes, Purification, *Racemases, Optical analysis,
*Stereochemistry.

- I. Tanaka, M.
- II. Kato, Y.
- III. Kinoshita, S.
- IV. Title: Purification ...

(Biological Sciences--Biochemistry, TT, v. 10, no. 5)

Office of Technical Services

Morito, Toshiaki.
ANTIBIOTIC COLISTIN FROM BACILLUS COLISTINUS
KOYAMA. Pt. 1 of Studies on the Culture of Bacillus
Colistinus Koyama. [1963] 20p. 6 refs.
Order from SLA \$1.60 63-16435

Trans. of Nihon Nogei-Kagakkai Shi (Japan) 1962,
v. 36, no. 1, p. 18-23.

DESCRIPTORS: Drugs, *Antibiotics, *Colimycin,
*Bacillaceae, Culture media, Biosynthesis.

(Biological Sciences--Pharmacology, TT, v. 10, no. 9)

63-16435

- I. Title: Bacillus
colistinus
- I. Morito, T.
- II. Title: Studies...

Office of Technical Services

63-16436

Morito, Toshiaki.
ANTIBIOTIC COLISTIN FROM BACILLUS COLISTINUS
KOYAMA, Pt. 2 of Studies on the Culture of Bacillus
Colistinus Koyama. [1963] 15p. 4 refs.
Order from SLA \$1.60 63-16436

Trans. of Nihon Nogei-Kagakkai Shi (Japan) 1962,
v. 36, no. 1, p. 24-28.

DESCRIPTORS: Drugs, *Antibiotics, *Colimycin,
Biosyntheses, Culture media, *Bacillaceae.

(See also 63-16435

- I. Title: Bacillus
colistinus
- I. Morito, T.
- II. Title: Studies...

(Biological Sciences--Pharmacology, TT, v. 10, no. 9)

Office of Technical Services

Studies of the Properties of Hydrocyanic Acid:
Polarographic and Ultraviolet Spectroscopic
Analysis of the Tetramer of Hydrocyanic Acid
and its Related Compounds, by Kiyoshi Onoda
12 pp.

JAPANESE, per, Nippon Nogakagaku Kaishi,
(Tokyo), Vol 36, No 2, 1962, pp 167-172.
NASA TT F 12,822

sci/chemistry
may 70

406,931

Studies of the Properties of Hydrocyanic Acid:
on the Derivatiss of the Hydrocyanic Acid
Tetramer, by Kiyoshi Onoda. 11 pp.
JAPANESE, per, Nippon Nogeikagaku Kaishi, Vol 36,
No 3, 1962, pp 255-259.
NASA TT F 12,824

sci/chem
may 70

406,933

Studies of the Properties of Hydrocyanic Acid
on the Molecular Structure of the Tetramer of
Hydrocyanic Acid, by Kiyoshi Onoda. 11 pp.
JAPANESE, per, Nippon Nogei Kagaku Kaishi,
Vol 36, No 4, 1962, pp 370-374.
NASA TT F 12,823

sci/chem
may 70

406,935

Kisaki, Takuro, Matsubara, Yoshiko, and Tamaki, Einosuke.
 RACEMIZATION OF NICOTINE BY HEAT AND ITS TRANSFORMATION PRODUCTS. [1963] 11p. 19 refs.
 Order from OTS or SLA \$1.60 63-16690

Trans. of [Nihon Nogei-Kagakukai Shi] (Japan) 1962, v. 36 [no. 4] p. 374-377.

DESCRIPTORS: *Nicotine, *Racemization, Pyrolysis, Chromatographic analysis, Sulfates, Acetates.

Salts of l-nicotine underwent racemization when their aqueous solutions were heated. The sulfate and acetate were more readily racemized than the hydrochloride. (The racemization proceeded more effectively when a salt of d-acid was heated). When heated at 200°C, the salts of l-nicotine yielded nornicotine, dihydromethan nicotine and a resinous material. The acetate yielded (Chemistry--Analytical, TT, v. 10, no. 8) (over)

63-16690

1. Title: Dihydromethan nicotine
2. Title: Nornicotine
- I. Kasaki, T.
- II. Matsubara, Y.
- III. Tamaki, E.

Office of Technical Services

Morito, Toshiaki.
ON COLISTIN, AN ANTIBIOTIC PRODUCED BY
BACILLUS COLISTINUS KOYAMA. PT. III. ISOLA-
TION OF COLISTIN A₁ and A₂. [1963] 15p. 15 refs.
Order from SLA \$1.60 63-16437

Trans. of Nihon Nozei-Kagakkai Shi (Japan) 1962,
v. 36, no. 5, p. 393-397.

DESCRIPTORS: Drugs, *Antibiotics, *Colimycin,
Biosynthesis, *Bacillaceae, Culture media.

(See also 63-16436)

(Biological Sciences--Pharmacology, TT, v. 10, no. 9)

63-16437

- I. Title: Bacillus
colistinus
- I. Morito, T.
- II. Title: Isolation...

Office of Technical Services

Morito, Toshiaki,
ON COLISTIN, AN ANTIBIOTIC PRODUCED BY
BACILLUS COLISTINUS KOYAMA. PT. IV. THE
AMINO ACID SEQUENCE OF COLISTIN A₁. [1963]
14p. 15 refs.
Order from SLA \$1.60 63-16507

Trans. of Nihon Nogai-Kagakuai Shi (Japan) 1962,
v. 36, no. 3, p. 398-402.

DESCRIPTORS: Drugs, *Antibiotics, *Colimycin,
Biosynthesis, Chemical analysis, Biochemistry,
*Bacillaceae.

(See also 63-16437)

(Biological Sciences--Pharmacology, TT, v. 10, no. 9)

63-16507

I. Title: Bacillus
colistinus
I. Morito, T.
II. Title: Amino...

Office of Technical Services

Preparation of Seasonings by the Hydrolysis of
Proteins. Part XI. Racemization of Amino Acids
During Hydrolysis of Soybean Meal, by T. Hino.
JAPANESE, per, Nippon Nogeigaku Kaishi, Vol 36,
1962, pp 469-473.

NTC-71-16266-07C

Nasa TT F 10,865

Jan 72

Studies of the Properties of Hydrocyanic Acid.
Report 5: The Discoloration and Water Content
of Liquid Hydrocyanic Acid and the Prevention of
Transformation, by Kiyoshi Onoda. 15 pp.
JAPANESE, per, Nippon Nogei Kagaku Kaishi, Vol 36,
No 7, 1962, pp 573-580.
NASA TT F 12,825

sci/chem
may 70

Kobashi, Yusuke and Watanabe, Mihoko.
THERMAL DECOMPOSITION OF TOBACCO ALKA-
LOIDS, PT. X. TRANSFER OF TOBACCO ALKA-
LOID INTO SMOKE FROM NORNICOTINE TYPE
CIGARETTES. [1962] 11p.
Order from K-H \$13.75

K-H-1224) c

Trans. of [Nihon] Nogei-Kagaku Shi (Japan) 1962,
v. 36, no. 7, p. 589-592.

DESCRIPTORS: *Cigarettes, *Nicotine, *Smokes,
Alkaloids, Tobacco, Chemical reactions, Pyrolysis.

(Chemistry--Physical, TT, v. 10, no. 8)

63-12896

- I. Title: Nornicotine
- I. Kobashi, Y.
- II. Watanabe, M.
- III. Title: Transfer ...
- IV. K-H-12240 c
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

TT-64-2080

Takasaki, Y. and Tanabe, O.
STUDIES OF THE ISOMERIZATION OF SUGARS BY
BACTERIA. PT. I. IDENTIFICATION OF ISOLATED
BACTERIA, CARBON SOURCES IN THE CULTURE
MEDIUM, THE CULTURING PROCESS, AND
ENZYMATIC ACTIVITY. [Apr 64] 7p
Order from ATS \$8.35 ATS-53R74]

Trans. of Nihon Nogei-Kagakkai Shi (Japan) 1962, v. 36,
no. 12, p. 10

(Biological Sciences--Biochemistry, TT, v. 12, no. 2)

- I. Takasaki, Y.
- II. Tanabe, O.
- III. Title: Identification...
- IV. ATS-53R74]
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Takasaki, Y. and Tanabe, O.
STUDIES OF THE ISOMERIZATION OF SUGARS BY
BACTERIA. PT. II. ENZYMATIC PROPERTIES OF
GLUCOSE ISOMERASE. [Apr 64] 7p
Order from ATS \$8.65 ATS-54R74J

Trans. of Nihon Nogei-Kagakkai Shi (Japan) 1962, v. 36,
no. 12, p. 1013-1016.

(See also ATS-5JR74J)

(Biological Sciences--Biochemistry, TT, v. 12, no. 2)

- I. Takasaki, Y.
- II. Tanabe, O.
- III. Title: Enzymatic...
- IV. ATS-54R74J
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Gas Chromatography of Unesterified Lower Fatty
Acids, by T. Nakae, T. Nakamishi.
JAPANESE, per, Nippon Nogei Kagaku Kaishi,
Vol XXXVII, 1963, pp 302-305.
*Fisheries Res Bd of Canada

Sci-Chem
Aug 64

265,123

TT-65-63462

Field 6C

Tamura, S.; Kenmochi, K.
STUDIES ON AMINO ACID CONTENT OF RICE.
PART 2. THE EFFECT OF THE PRESENCE OF
CARBOHYDRATES DURING ACID HYDROLYSIS ON THE
AMINO ACID DETERMINATION. Tr. by Hiroshi Murakami.
1965, 10p, 9refs.
Available on loan from CFSTI as TT-65-63462

Trans. of Nihon Nogei Kagakkaishi (Japan) v37 p611-4
1963.

Document is not reproducible and is available from the
Clearinghouse on loan only.

I. Title: Effect ...

Studies on the Metabolic Turnover of Muscle Proteins. Part 5. Estimation of the Metabolic Half Life of Protein Fractions of Muscles in the Rat Continuously Give ^{14}C -Chloroallia Protein Acid Hydrolysate, by Ryohai FURUKAWA, Makoto KANAMITSU.

JAPANESE, per, Higuchi Nogaiyagaku Kaishi, Vol 39, No 12, 1965, pp 501-507.
*AEC RES Tr-88

Sci - Biol & Med
Aug 67

Effects of Light and Darkness on Some Organic
Compounds in Lemna Perpusilia, by Ching-San Chen,
Masateru Miyano.

JAPANESE, per, Nippon Kogekigaku Kaishi, Vol
40, 1966, pp 161-164.

*AEC JAERI

Sci-Chem
Jan 68

High Speed Highway Transportation and Truck
Terminals, by Nitton Sogo Kenkyujo, 11 pp.
JAPANESE, per, Nihon No Yoso Kakurhin, 1964,
pp 345-353.
DIA LN 7-67

Sci-
Jul 67

351,709

Tsuchiya, T., Shilo, T., Okada, H., Kameyama, I.,
and Tsunoda, T.

A STUDY OF BACTERIOPHAGES IN L-GLUTAMIC
ACID FERMENTATION. PT. 1. CONFIRMATION OF
BACTERIOPHAGES. [1964] 7p
Order from ATS \$9.00

ATS-51R74J

Trans. of Nihon Nogei-Kagaku Shu (Japan) 1963,
v. 37, no. 11, p. 686-689.

(Biological Sciences--Microbiology, TT, v. 11, no. 11)

TT-64-12769

- I. Tsuchiya, T.
- II. Shilo, T.
- III. Okada, H.
- IV. Kameyama, I.
- V. Tsunoda, T.
- VI. ATS-51R74J
- VII. Associated Technical
Services, Inc.,
East Orange, N. J.
- VIII. Title: Confirmation...

Office of Technical Services

Studies of the Shimmering Phenomena by Heating
("Kagero") in the Atmospheric Surface Layer. 2.
Turbulent Diffusion Phenomena in the Shimmering Layer.
by E. Inoue.
JAPANESE, per Nihon Nogyo Kisho Gakkai, Vol. 15, 1960
pp 93-96
NLI/5828.41965 (11073)

Sci -
Aug 67

339-522

Statistical Properties of the Fundamental
Frequencies of Japanese Speech Voices, by
Shuzo Saito, Katsuhiko Kato, 18 p.

JAPANESE, per, Nihon Onkyo Gakkaishi, 1958,
Vol XIV, No 2, pp 111-116.

SLA 59-15995

Sci
Jan 60
Vol 2, No 6

103,736

The Factors of Transmitting System Affecting the
Naturalness of Speech, by Tsuneji Koshikawa, 14 p.

JAPANESE, per, Nihon Onkyo Gakkaishi, 1958,
Vol XIV, No 2, pp 164-169.

SLA 59-15994

Sci
Jan 60
Vol 2, No 6

103,735

On the Scaling of Higher Qualities of Superconductors,
by Tomio Yoshida, 13 pp.

JAPANESE, par, Nihon Gakyo Shokaisha, Vol. VII.
No 2, 1968, pp 170-174.

CIA 59-17004

Sci
Jan 60
Vol 2, No 7

10/2/80

Classification of the Optical Methods of
Visualization of Ultrasonic Waves. I.
Classification Scheme, by Otohiko Homoto,
1A pp.

JAPANESE, per, Nihon Onkyo Gakkaishi,
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Mechanisms of the Image Formation and the
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Nagata, Kunichi and Kato, Yasuo.

SOME RESULTS OF AN EXPERIMENTAL PITCH
DETECTOR. [1962] 5p. 1 ref.

Order from SLA 51.10

62-18083

I. Nagata, K.
II. Kato, Y.Trans. of [Nihon Onkyo Gakkaishi] (Japan) 1960, v. 16,
no. 4, p. 277-279.DESCRIPTORS: *Acoustic detectors, *Pitch discrimi-
nation, Noise analyzers, *Auditory signals, Sound,
Wave characteristics.

An instrument has been developed as a part of a
formantvocoder for smoothly detecting wide-range
voice pitch frequencies. Speech signals from a con-
ventional telephone are cross-modulated, low-passed,
frequency-inverted, and frequency-analyzed. Analyzed
signals are discriminated separately, and their DC
output voltages are compared in a simple diode added
in order to select the most significant voltage which
(Physics--Acoustics, TT, v. 8, no. 9) (over)

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62-18084

Hiramatsu, Keiji.
A NEW PITCH EXTRACTOR. [1962] 6p.
Order from SLA \$1.10 62-18084

Trans. of [Nihon Onkyo Gakkaishi] (Japan) 1960, v. 16,
no. 4, p. 279-281.

DESCRIPTORS: *Acoustic detectors, *Pitch discrimination,
Noise analyzers, *Auditory signals, Sound,
Frequency shift.

A new principle is described which permits not only
extraction of pitch frequency, but extraction of
formant or new parameter of speech information.
This is achieved by discriminating the zero-crossing of
frequency shifted signal. By infinitely increasing the
amplitude and then clipping, it is possible with the
present method to detect pitch signals which begin to
appear in low-energy transients and to suppress noise
with the residual carrier waves. In the detection of
(Physics--Acoustics, TT, v. 8, no. 9) (over)

I. Hiramatsu, K.

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62-14469

Suzuki, George.
PITCH EXTRACTOR. [1962] 4p. 1 ref.
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I. Suzuki, G.

Trans. of [Nihon Onkyo Gakkaiishi] (Japan) 1960,
v. 16, no. 4, p. 281-283.

DESCRIPTORS: Speech, *Speech transmission, Voice
communication systems, *Pitch discrimination,
Sound transmission, Electronic equipment.

The experiment was based on the desirability of
designing a pitch extractor which would extract a
rapidly changing pitch with analog voltage, in addition
to its use for a vocoder in the discrimination of
voices. (Author)

(Research Methods--Communication Theory, TT,
v. 8, no. 10)

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62-14478

Inomata, Shuji.
A NEW METHOD OF PITCH EXTRACTION USING
A DIGITAL COMPUTER. [1962] [S]p. 2 refs.
Order from SLA \$1.10 62-14478

I. Inomata, S.

Trans. of [Nihon Onkyo Gakkaishi (Japan) 1960, v. 16,
no. 4, p. 283-285].

DESCRIPTORS: Speech, *Speech transmission, Voice
communication systems, *Pitch discrimination,
*Digital computers, Time lag theory, Sound
transmission.

The present suggestion is based on the fact that the
methods used hitherto are not necessarily suitable,
considering both the properties of the voice pitch and
the calculation time. Therefore, a "locally almost
periodical function" has been adopted as the mathe-
matical model for voiced speech, and the fundamental
(Research Methods--Communication Theory,
TT, v. 8, no. 9) (over)

SLA 62-18082

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62-18085

Kobayashi, Ryuji.
ON A PITCH PERIOD INDICATOR COMBINED WITH
ZERO-CROSSING INTERVAL INDICATION. [1962]
6p. 7 refs.
Order from SLA 51.10 62-18085

Trans. of [Nihon Onkyo Gakkaishi] (Japan) 1960, v. 16,
no. 4, p. 286-288.

DESCRIPTORS: *Acoustic detectors, *Pitch discrimi-
nation, *Speech transmission, *Auditory signals,
Wave characteristics, Sound.

In the ordinary pitch indicator it is impossible to find
in the melodic curve the exact location corresponding
to each spoken syllable. An improvement in this
respect is achieved by the new pitch indicator which
combines pitch and zero-crossing interval indications.
The relation between voiced and voiceless, and the
(Physics--Acoustics, TT, v. 8, no. 9) (over)

1. Kobayashi, R.

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Wide Band (10 to 20 kc) -- Japan -- Propagating
Wave Probe, by Motoyoshi Okushima, Junichi
Saneyoshi, 5 pp. UNCLASSIFIED

JAPANESE, rpt, Nihon Onkyo Gakkai Kosen Ronbunshu,
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Cavitation Phenomenon, by Motoyoshi Omushina,
Junichi Sanyoshi, 5 pp. UNCLASSIFIED

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May 1959. 967695

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